

APS Website Showing Wrong Data, Making Incorrect Plan Recommendations

DOCKET #: E-01345A-19-0003

Dear Commissioners:

The Commission has been persistent in requiring APS to provide pro forma billing data and in ensuring that APS ratepayers, and especially those whose bills have increased more than 9 percent, receive the information they need to adopt their most economical rate plan.

The lack of pro forma billing, an issue raised in Commissioner Olson's letter dated November 12, 2019 (https://docket.images.azcc.gov/E000003661.pdf), is just the tip of the iceberg. I want to bring urgent attention to the following conclusion I have reached based on a detailed analysis of two customers' data (attached with confidential information redacted):

The APS website is showing highly inaccurate data for historical annual costs. The plan comparison methodology is also flawed. And APS is steering customers to the wrong plans saying they are most economical even though they are more expensive by hundreds of dollars annually based on the historical energy usage for the previous 12 months.

The fact that this wrong information is being provided by APS on its *aps.com/compare* website indicates that a larger, systemic problem exists. Because I don't have a large enough, statistically valid sample of data, determining the issues and judging how widespread the problem is difficult.

Nonetheless, the attached two customer examples raise many disturbing questions: Did some or all the 400,000 customers receive letters and postcards with potentially incorrect information and an untold additional number of customers receive erroneous information online at aps.com/compare about their most economical plan? Was urging them to switch to a "recommended" plan based on potentially incorrect calculation of savings? Is the pro forma billing about to be released also at risk of providing inaccurate information?

If so, the targeted outreach to the customers would not only have been unhelpful, but downright harmful. In light of this, I would like to offer these recommendations for your consideration:

- APS should be asked to immediately cease providing historical billing data and most economical
 plan recommendations to the customers until further investigation.
- APS should be asked to preserve all the historical billing data, most economical plan information, and estimated savings amounts it has provided to customers through various channels.
- 3. APS should be asked to hire an independent auditor, at its own cost, to audit the full functionality of the plan comparison tool, including but not limited to its use of the historical data, the plan comparison methodology along with the accuracy of the savings calculation and most economical plan recommendations. This audit report must be docketed in full.

Sincerely,

Abhay Padgaonkar APS Ratepayer

APS Website Showing Wrong Data, Making Incorrect Plan Recommendations

Where on the APS website is this information?

https://www.aps.com/compare

or

After log in to the customer account: Billing and payment > Billing and usage > View your billing and usage > Compare Plan (Find out if your plan is right for you)

For Customer #1:

What does the APS website show?

The attached "APS Plan Compare - Customer #1 - 10-22-19" screenshots taken on Oct. 22 from the APS rate comparison website page show the following information:

- Under 'Your current plan' the APS website shows "Estimated annual cost \$1,884.64" for Saver Choice Max, the current plan.
- Under the "Recommended" banner, it shows that "Saver Choice" is the recommended plan with annual savings from switching \$211.22.
- It also shows \$134.99 savings from switching to the Saver Choice Plus plan.
- And \$115.27 savings from switching to the Premier Choice plan.

What does the analysis show?

The attached analysis for Customer #1 shows that:

- The estimated annual cost of \$1,884.64 for the current plan is completely wrong. Based on the data downloaded from the APS website using the "Download usage data" link, the total billed amount for the last 12 months was only \$1,151.68.
- The estimated highest monthly bill for the current plan of \$315.57 is also way off, especially considering that the highest actual bill over the 12 billing cycles was only \$127.49.
- The recommendation of the "Saver Choice" plan as the most economical plan with \$211.22 savings is completely wrong.
- As the rate comparison between the two plans in the attached 'Cust #1 R3 vs TOU-E' shows, the opposite, in fact, is true. The Saver Choice plan would be \$419.01 more expensive than the Saver Choice Max plan.
- The recommendation that the "Saver Choice Plus" plan would provide \$134.99 savings is completely wrong.
- As the rate comparison between the two plans in the attached 'Cust #1 R3 vs R2' shows, the
 opposite, in fact, is true. The Saver Choice Plus plan would be \$195.77 more expensive
 than
 the Saver Choice Max plan.
- The recommendation that the "Premier Choice" plan would provide \$115.27 savings is completely wrong.
- As the rate comparison between the two plans in the attached 'Cust #1 R3 vs R-Basic' shows, the opposite, in fact, is true. The Premier Choice plan would be \$557.17 more expensive than the Saver Choice Max plan.

For Customer #2:

What does the APS website show?

The attached "APS Plan Compare - Customer #2 - 10-22-19" screenshots taken on Oct. 22 from the APS rate comparison website page show the following information:

- Under 'Your current plan' it shows "Estimated annual cost \$1,768.71" for Saver Choice Max, the current plan.
- Under "Recommended" banner, it shows that "Saver Choice Plus" is the recommended plan with annual savings from switching \$49.54.

What does the analysis show?

The attached analysis for Customer #2" shows that:

- The estimated annual cost of \$1,768.71 for the current plan is completely wrong. Based on the data downloaded from the website using the "Download usage data" link, the total billed amount for the previous 12 months was only \$1,024.10.
- The estimated highest monthly bill of \$329.65 is twice as high compared to the highest, actual bill over the last 12 billing cycles, which was only \$158.72.
- The recommendation of the "Saver Choice Plus" plan as the most economical plan with \$49.54 savings is completely wrong.
- As the rate comparison between the two plans in the attached 'Cust #2 R3 vs R2' shows, the
 opposite, in fact, is true. The Saver Choice Plus plan would be \$298.76 more expensive
 than
 the current Saver Choice Max plan.

<u>Note:</u> The winter super-off-peak usage was not available in the APS downloaded data. It was created from the hourly interval meter data for super-peak hours of 10a-3p weekdays.

The APS downloaded data also had a discrepancy and showed incorrect usage charge, highlighted in yellow, compared to the actual bills starting June 2019. This analysis is unaffected because billed amounts were analyzed, not usage charges.

Note on the rate comparison methodology:

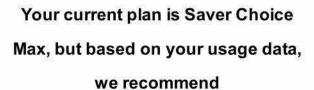
This analysis compares two rate plans (current vs. recommended) for identical annual usage for the previous 12 months. It computes the base bill charges only, excluding any adjustors charges. The analysis then grosses up the difference in base bills for taxes and fees at the appropriate rate for each customer. The reason for excluding adjustor charges is this: The adjustor rates are essentially the same across various rate plans (with a minor exception for LFCR). And when identical usage is applied to the same adjustor rates, it would result in identical adjustor charges that would be a wash in any rate comparison. It means that the computing the difference in base bills, and grossed up for taxes, represents the difference between the two plans being compared.

<u>PS:</u> A check of the APS website on **November 13** showed that the numbers and plan recommendations were still incorrect for both customers.



APS Plan Compare - Customer #1 - 10-22-19

Service address



Saver Choice

See plan details >

Estimated annual cost

Estimated highest

\$1,673.42

\$235.15

monthly bill

Annual savings from switching*

Estimated lowest monthly bill

\$211.22

\$66.66

Select plan to save

Cost analysis on all plans

Recommended

Saver Choice

See plan details >

Estimated lowest

monthly bill

Estimated highest

monthly bill

\$66.66

\$235.15

Annual savings from Estimated annual cost

switching*

\$211.22

\$1,673.42

Select plan

Saver Choice Plus

See plan details >

Estimated lowest monthly bill

Estimated highest monthly bill

\$65.72

\$259.60

Annual savings from

Estimated annual cost

switching*

\$134.99

\$1,749.65

Select plan

Premier Choice

See plan details >

Estimated lowest

Estimated highest

monthly bill

monthly bill

\$72.83

\$238.69

Annual savings from

Estimated annual cost

switching*

\$115.27

\$1,769.37

Your current plan

Saver Choice Max

See plan details >

Estimated lowest

monthly bill

Estimated highest

monthly bill

\$59.71

\$315.57

Estimated annual cost

....

\$1,884.64

You're currently on this plan

IMPORTANT: This plan comparison is calculated based on your historical energy usage, including your usage during our previous on-peak time-of-use hours of noon to 7pm, weekdays. The cost estimates do not assume or reflect any changes you might make to reduce your energy use during the on-peak hours for our new time-of-use service plans, which are from 3pm to 8pm, weekdays. Shifting your weekday energy use to before

3pm or after 8pm can help reduce your monthly bill compared to the estimates shown for the new time-of-use plans.

ATTENTION GRANDFATHERED SOLAR
CUSTOMERS: Changing your service plan will
void the terms of your currently grandfathered
service plan, also known as net-metering.
Please contact the APS Customer Technology
Team if you would like to review your plan
options.

Cust #1 - R3 vs TOU-E

Service address	Bill start date	Bill end date	On-peak kV	Off-peak kWh	Usage charge	Billed amount	Rate plan	Meter num Billing days	Super-peak kWh	« W	Total kWh
	10/18/2018	11/19/2018	57	439	59.21	65.66	Saver Choice Max	32	54	1.1	496
	11/19/2018	12/19/2018	48	330	54.12	60.02	Saver Choice Max	30	50	1.3	378
	12/19/2018	1/22/2019	49	760	82.59	91.59	Saver Choice Max	34	72	1.5	809
	1/22/2019	2/19/2019	83	854	99.14	109.93	Saver Choice Max	28	77	2.6	937
	2/19/2019	3/19/2019	88	817	97.69	108.33	Saver Choice Max	28	69	2.6	905
	3/19/2019	4/18/2019	67	634	80.79	89.59	Saver Choice Max	30	49	2.2	701
	4/18/2019	5/17/2019	42	406	92.48	102.54	Saver Choice Max	29	2	2.9	448
	5/17/2019	6/18/2019	46	685	71.99	77.36	Saver Choice Max	32		0.8	731
	6/18/2019	7/19/2019	54	1404	112.28	119.57	Saver Choice Max	31	2	0.9	1458
	7/19/2019		57	1539	119.78	127.49	Saver Choice Max	31	<u> </u>	0.9	1596
	8/19/2019	9/19/2019	60	1482	116.98	124.56	Saver Choice Max	31	¥	0.9	1542
	9/19/2019	10/21/2019	52	567	69.54	75.04	Saver Choice Max	32		1	619
	7		703	9917	1056.59	1151.68		368	371	18.7	10620
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Last 12 months	-		202	2024		ć 525.42		100	274	11.3	4226
Winter Bills	1	· · · · · · · · ·	392	3834		\$ 525.12		182	371	11.3 7.4	4226
Summer Bills	-		311 703	6083		\$ 626.56		186		18.7	6394
Total			703	9917		\$ 1,151.68	<u></u>	368		18.7	10620
			On-peak	Off-peak		Base Bill (excl adj/taxes)		Basic Svc	Super-peak	Demand	
Saver Choice Max	(R-3)	i i		ä.	2		i.	ts ts 2	92		!
Winter Rates*		i i	\$0.06376	\$ 0.05230				\$ 0.427		\$ 12.239	
Summer Rates*			\$0.08683	\$ 0.05230				\$ 0,427		\$ 17.438	
Winter Charges			\$ 24.99	\$ 200.52		\$ 441.52		\$ 77.71		\$ 138.30	
Summer Charges			\$ 27.00	\$ 318.14		\$ 553.60		\$ 79.42		\$ 129.04	
Total Charges			\$ 51.99	\$ 518.66		\$ 995.12		\$ 157.13		\$ 267.34	
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Saver Choice (TOL Winter Rates*	J-E)	. ,	\$0.23068	\$ 0.10873				\$ 0.427	\$ 0.032		
Summer Rates*	-	5 ×	\$0.23068	\$ 0.10873				\$ 0.427	Ş U.U3Z	-	
WOMEN 191 VALLES HEREIGHT - ST. 1		1	Seculation of the view of	\$ 0.10873		\$ 556.54		\$ 0.427	\$ 11.87	-	
Winter Charges	-		5785 S787803837//	\$ 661.40		\$ 556.54		30.0 0.000.000	\$ 11.87	-	
Summer Charges	-			1551 155777115GG		LEAD PRODUCTION		1384. 100903000	ć 11.07	-	
Total Charges			\$ 166.05	\$ 1,037.93	k	\$ 1,372.98	ŀ	\$ 157.13	\$ 11.87	6	
DIFFERENCE betw	een R-3 and TC	DU-E		Base Bill exclu	ding adj/taxes	\$ (377.86)					
				Including Taxe		\$ (419.01)					

*Source:	https://www.aps.com/en/Residential/Service-Plans/Compare-Service-Plans

Super-off-peak data was missing from the APS data download. It was created from the houly interval meter data.

Cust #1 - R3 vs R2

Bill start date	Bill end date	On-peak kWh	Off-peak kWh	Usage charge	Billed amount	Rate plan	Meter num Billing day	Super-peak kWh	kW	Total kWh
10/18/2018	11/19/2018	57	439	59.21	65.66	Saver Choice Max	32	¥	1.1	490
11/19/2018	12/19/2018	48	330	54.12	60.02	Saver Choice Max	30	8 .	1.3	378
12/19/2018	1/22/2019	49	760	82.59	91.59	Saver Choice Max	34	×	1.5	809
1/22/2019	2/19/2019	83	854	99.14	109.93	Saver Choice Max	28	8	2.6	937
2/19/2019	3/19/2019	88	817	97.69	108.33	Saver Choice Max	28	E.	2.6	905
3/19/2019	4/18/2019	67	634	80.79	89.59	Saver Choice Max	30	n.	2.2	701
4/18/2019		42		1-1101-110-1101-13	102.54	Saver Choice Max			2.9	448
5/17/2019	6/18/2019		10000000	71.99	77.36	Saver Choice Max	32		0.8	731
6/18/2019	7/19/2019	54	1404	112.28	119.57	Saver Choice Max	31	Ø	0.9	1458
7/19/2019	8/19/2019	57	1539	119.78	127.49	Saver Choice Max	31	E1	0.9	1596
				116.98	124.56	Saver Choice Max	2000		0.9	1542
9/19/2019	10/21/2019	52	567	69.54	75.04	Saver Choice Max	32	8	1	619
		703	9917	1056.59	1151.68		368		18.7	10620
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	1	392	3834		\$ 525.12		182		11 3	4226
	+								-	-
		703			\$ 1,151.68			1	18.7	10620
-	· ·					51				
		On-peak	Off-peak		Base Bill (excl adj/taxes)		Basic Svc	Super-peak	Demand	
R-3)				Î						
	i j	\$ 0.06376	\$ 0.05230				\$ 0.427		\$ 12.239	
		\$ 0.08683	\$ 0.05230						\$ 17.438	
	j j	\$ 24.99	\$ 200.52		\$ 441.52				\$ 138.30	
	5	\$ 27.00	\$ 318.14		\$ 553.60		\$ 79.42		\$ 129.04	
		\$ 51.99	\$ 518.66		\$ 995.12		\$ 157.13		\$ 267.34	0
R-2)								-		
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			STATE CONTRACTOR		ACC CAMPAGE CO.		SASS 14300000000		_00_0000000000000000000000000000000000	3
	/· 9	\$ 84.12	\$ 773.33		\$ 1,171.66		\$ 157.13		\$ 157.08	
en R-3 and R-2			Base Bill exclu		\$ (176.54)	100				E :
	10/18/2018 11/19/2018 12/19/2019 2/19/2019 3/19/2019 4/18/2019 5/17/2019 6/18/2019 7/19/2019 8/19/2019 9/19/2019	10/18/2018 11/19/2018 11/19/2018 12/19/2018 12/19/2019 1/22/2019 2/19/2019 3/19/2019 3/19/2019 4/18/2019 4/18/2019 5/17/2019 5/17/2019 6/18/2019 6/18/2019 7/19/2019 7/19/2019 8/19/2019 9/19/2019 10/21/2019 R-3) R-2)	10/18/2018 11/19/2018 57 11/19/2018 12/19/2018 48 12/19/2018 1/22/2019 49 1/22/2019 2/19/2019 83 2/19/2019 3/19/2019 88 3/19/2019 4/18/2019 67 4/18/2019 5/17/2019 42 5/17/2019 6/18/2019 46 6/18/2019 7/19/2019 54 7/19/2019 8/19/2019 57 8/19/2019 9/19/2019 60 9/19/2019 10/21/2019 52 703	10/18/2018 11/19/2018 57 439 11/19/2018 12/19/2018 48 330 12/19/2019 1/22/2019 49 760 1/22/2019 2/19/2019 83 854 2/19/2019 3/19/2019 88 817 3/19/2019 4/18/2019 67 634 4/18/2019 5/17/2019 42 406 5/17/2019 6/18/2019 46 685 6/18/2019 7/19/2019 54 1404 7/19/2019 8/19/2019 57 1539 8/19/2019 9/19/2019 50 1482 9/19/2019 10/21/2019 52 567 703 9917	10/18/2018 11/19/2018 57 439 59.21 11/19/2018 12/19/2018 48 330 54.12 12/19/2018 1/22/2019 49 760 82.59 1/22/2019 2/19/2019 83 854 99.14 2/19/2019 3/19/2019 88 817 97.69 3/19/2019 4/18/2019 67 634 80.79 4/18/2019 5/17/2019 42 406 92.48 5/17/2019 6/18/2019 46 685 71.99 6/18/2019 7/19/2019 54 1404 112.28 7/19/2019 8/19/2019 57 1539 119.78 8/19/2019 9/19/2019 60 1482 116.98 9/19/2019 10/21/2019 52 567 69.54 703 9917 1056.59 On-peak Off-peak	10/18/2018	10/18/2018 11/19/2018 57 439 59.21 65.66 Saver Choice Max 11/19/2018 12/19/2018 48 330 54.12 60.02 Saver Choice Max 12/19/2018 1/22/2019 49 760 82.59 91.59 Saver Choice Max 1/22/2019 2/19/2019 83 854 99.14 109.93 Saver Choice Max 2/19/2019 3/19/2019 88 817 97.69 108.33 Saver Choice Max 3/19/2019 4/18/2019 67 634 80.79 89.59 Saver Choice Max 4/18/2019 5/17/2019 42 406 92.48 102.54 Saver Choice Max 5/17/2019 6/18/2019 46 685 71.99 77.36 Saver Choice Max 6/18/2019 7/19/2019 54 1404 112.28 119.57 Saver Choice Max 8/19/2019 9/19/2019 57 1539 119.78 127.49 Saver Choice Max 8/19/2019 9/19/2019 60 1482 116.98 124.56 Saver Choice Max 9/19/2019 10/21/2019 52 567 69.54 75.04 Saver Choice Max 9/19/2019 10/21/2019 52 567 69.54 75.04 Saver Choice Max 9/19/2019 10/21/2019 52 567 69.54 75.04 Saver Choice Max 9/19/2019 10/21/2019 52 567 69.54 75.04 Saver Choice Max 6/18/2019 7/19/2019 52 567 69.54 75.04 Saver Choice Max 9/19/2019 10/21/2019 52 567 69.54 75.04 Saver Choice Max 9/19/2019 10/21/2019 52 567 69.54 75.04 Saver Choice Max 6/18/2019 7/19/2019 52 567 69.54 75.04 Saver Choice Max 9/19/2019 10/21/2019 52 567 69.54 75.04 Saver Choice Max 6/18/2019 7/19/2019 52 567 69.54 75.04 Saver Choice Max 6/18/2019 7/19/2019 52 567 69.54 75.04 Saver Choice Max 6/18/2019 7/19/2019 52 567 69.54 75.04 Saver Choice Max 6/18/2019 7/19/2019 52 567 69.54 75.04 Saver Choice Max 6/18/2019 7/19/2019 52 567 69.54 75.04 Saver Choice Max 6/18/2019 7/19/2019 52 567 69.54 75.04 Saver Choice Max 6/18/2019 7/19/2019 52 567 69.54 50.55 50.50 50 50 50 50 50 50 50 50 50 50 50 50 5	10/18/2018 11/19/2018 57	10/18/2018 11/19/2018 57 439 59.21 65.66 Saver Choice Max 32	10/18/2018 11/19/2018 57

*Source: https://www.aps.com/en/Residential/Service-Plans/Compare-Service-Plans

Cust #1 - R3 vs R-Basic

Service address	Bill start date	Bill end date	On-peak k\	Wh Of	ff-peak kWh	Usage charge	Billed amount	Rate plan	Meter nun	Billing days	Super-peak kWh	kW	Total kWh
	10/18/2018	11/19/2018		57	439	59.21	65.6	6 Saver Choice Max		32		1.1	496
	11/19/2018	12/19/2018		48	330	54.12	60.0	2 Saver Choice Max		30		1.3	378
	12/19/2018	1/22/2019		49	760	82.59	91.5	9 Saver Choice Max		34	-	1.5	809
	1/22/2019	2/19/2019		83	854	99.14	109.9	3 Saver Choice Max		28		2.6	937
	2/19/2019	3/19/2019		88	817	97.69	108.3	3 Saver Choice Max		28		2.6	905
	3/19/2019	4/18/2019		67	634	80.79	89.5	9 Saver Choice Max		30	8	2.2	701
	4/18/2019	5/17/2019		42	406	92.48	102.5	4 Saver Choice Max		29	9	2.9	448
	5/17/2019			46	685	71.99	77.3	6 Saver Choice Max		32	9	0.8	731
	6/18/2019			54	1404	112.28		7 Saver Choice Max		31		0.9	1458
	7/19/2019	8/19/2019		57	1539	119.78	127.4	9 Saver Choice Max		31	1	0.9	1596
	8/19/2019	9/19/2019		60	1482	116.98	124.5	6 Saver Choice Max		31		0.9	1542
	9/19/2019	10/21/2019		52	567	69.54	75.0	4 Saver Choice Max		32	-	1	619
707	_s-		7	'03	9917	1056.59	1151.6	8		368		18.7	10620
			rec	- 30	-		.r.						
Last 12 months													
Winter Bills			373	92	3834		\$ 525.12			182		11.3	
Summer Bills			3	11	6083		\$ 626.56	5		186		7.4	6394
Total			7	03	9917		\$ 1,151.68	8		368		18.7	10620
			<u> </u>	7.420			¥					-	211
V:		115	On-peak	(Off-peak		Base Bill (excl adj/taxe	5)		Basic Svc	Super-peak	Demand	
Saver Choice Max	(R-3)									-00			
Winter Rates*			\$ 0.0637		O. 1745/0/25/25/46/45/25					\$ 0.427		\$ 12.239	
Summer Rates*			\$ 0.0868	30,000						\$ 0.427		\$ 17.438	
Winter Charges			\$ 24.9		C		\$ 441.52			\$ 77.71		\$ 138.30	
Summer Charges			\$ 27.0				\$ 553.60			\$ 79.42		\$ 129.04	
Total Charges			\$ 51.9	99 \$	518.66		\$ 995.12			\$ 157.13		\$ 267.34	
Dunming Chains (F) Desiral	Ì	r	T	- i		i	Ť	T			T	
Premier Choice (F Winter Rates*	-basic)			-	**			+	-	\$ 0.493		-	\$ 0.1239
Summer Rates*					-			+	 	\$ 0.493		+	\$ 0.1239
Winter Charges	+			-	*		\$ 613.46		t	\$ 89.73		+	\$ 523.73
Summer Charges						-	\$ 884.11		-	\$ 91.70			\$ 792.41
	+			-			\$ 1,497.57	ALC I	4	\$ 181.43		1	\$1,316.14
Total Charges							T 27.07.07	1	de e	7 202.10		The state of the s	71,010.17
Total Charges	1		V										
Total Charges DIFFERENCE betw	reen R-3 and R	-Basic		Ba	ase Bill exclu	ding adj/taxes	\$ (502.45						



APS Plan Compare - Customer #2 - 10-22-19

Service address

Your current plan is Saver Choice

Max, but based on your usage data,

we recommend

Saver Choice Plus

See plan details >

Estimated annual cost

Estimated highest monthly bill

\$1,719.17

\$303.57

Annual savings from

switching*

Estimated lowest monthly bill

\$49.54

\$47.69

Select plan to save

Cost analysis on all plans

Recommended

Saver Choice Plus

See plan details >

Estimated lowest

monthly bill

\$47.69

Estimated highest

monthly bill

\$303.57

Annual savings from

switching*

Estimated annual cost

\$49.54

\$1,719.17

Select plan

Saver Choice

See plan details >

Estimated lowest monthly bill

Estimated highest monthly bill

\$52.01

\$329.03

Annual savings from switching*

Annual savings from Estimated annual cost

\$16.63

\$1,752.08

Select plan

Your current plan

Saver Choice Max

See plan details >

Estimated lowest

monthly bill

\$41.20

Estimated highest

monthly bill

\$329.65

Estimated annual cost

\$1,768.71

You're currently on this plan

Premier Choice

See plan details >

Estimated lowest

Estimated highest

monthly bill \$58.80

\$350.90

monthly bill

Annual added cost by Estimated annual cost

switching*

\$115.05

\$1,883.76

Select plan

IMPORTANT: This plan comparison is calculated based on your historical energy usage, including your usage during our previous on-peak time-of-use hours of noon to 7pm, weekdays. The cost estimates do not assume or reflect any changes you might make to reduce your energy use during the on-peak hours for our new time-of-use service plans, which are from 3pm to 8pm, weekdays. Shifting your weekday energy use to before 3pm or after 8pm can help reduce your monthly bill compared to the estimates shown for the new time-of-use plans.

ATTENTION GRANDFATHERED SOLAR CUSTOMERS: Changing your service plan will void the terms of your currently grandfathered service plan, also known as net-metering. Please contact the APS Customer Technology Team if you would like to review your plan options.

Cust #2 - R3 vs R2

	9/21/2018				Usage charge	Billed amount	Rate plan	Meter nun Billing days	Super-peak Kantil	N V V	Total kWh
	3/21/2010	10/22/2018	34	985	85	94.69	Saver Choice Max	31	4)	0.6	1019
	10/22/2018	11/21/2018	36	459	65.88	73.39	Saver Choice Max	30	+	1.7	495
	11/21/2018	12/21/2018	38	323	43.84	48.84	Saver Choice Max	30	-	0.6	361
	12/21/2018	1/24/2019	39	380	50.39	56.13	Saver Choice Max	34	2 2	0.7	419
	1/24/2019	2/21/2019	26	268	36.49	40.65	Saver Choice Max	28	2 6	0.5	294
	2/21/2019	3/21/2019	29	282	37.57	41.85	Saver Choice Max	28		0.5	311
	3/21/2019	4/22/2019	31	443	48.82	54.39	Saver Choice Max	32		0.6	474
	4/22/2019	5/21/2019	24	612	57.5	64.05	Saver Choice Max	29	20	0.5	636
	5/21/2019	6/20/2019	28	1212	97.75	104.67	Saver Choice Max	30	4)	0.8	1240
	6/20/2019	7/23/2019	20	2148	139.18	147.69	Saver Choice Max	33	-	0.3	2168
	7/23/2019	8/21/2019	21	2375	149.72	158.72	Saver Choice Max	29	* 9	0.3	2396
	8/21/2019	9/21/2019	20	2010	130.95	139.03	Saver Choice Max	31	g e	0.3	2030
			346	11497	943.09	1024.1		365		7.4	11843
						Ve		9W7 9X 9			E-
Last 12 months				12							
Winter Bills			199	2155		\$ 315.25		182		4.6	2354
Summer Bills			147	9342		\$ 708.85		183		2.8	9489
Total			346	11497		\$ 1,024.10		365		7.4	11843
				51 50		20 /	124.5	1040	, , , , , , , , , , , , , , , , , , ,		5240
W.	10		On-peak	Off-peak		Base Bill (excl adj/taxes)		Basic Svc	Super-peak	Demand	
Saver Choice Ma	x (R-3)					3,7					Ĺ
Winter Rates*			\$ 0.06376	\$ 0.05230				\$ 0.427		\$ 12.239	
Summer Rates*			\$ 0.08683	\$ 0.05230				\$ 0.427		\$ 17.438	
Winter Charges			\$ 12.69	\$ 112.71		\$ 259.41		\$ 77.71		\$ 56.30	
Summer Charges			\$ 12.76	\$ 488.59		\$ 628.32		\$ 78.14	0	\$ 48.83	
Total Charges	1		\$ 25.45	\$ 601.30		\$ 887.73		\$ 155.85		\$ 105.13	
24			A	0)				Y40	70		58
Saver Choice Plu	s (R-2)										
Winter Rates*			\$ 0.11017	\$ 0.07798				\$ 0.427		\$ 8.400	
Summer Rates*			\$ 0.13160	\$ 0.07798				\$ 0.427		\$ 8.400	
Winter Charges			\$ 21.92	\$ 168.05		\$ 306.32		\$ 77.71		\$ 38.64	
Summer Charges			\$ 19.35	\$ 728.49		\$ 849.50		\$ 78.14		\$ 23.52	
Total Charges			\$ 41.27	\$ 896.54		\$ 1,155.82		\$ 155.85		\$ 62.16	
DIFFERENCE bety	ween R-3 and	R-2		Base Bill exclu	ding adj/taxes	\$ (268.09)					
				Including Taxe		\$ (298.76)			1		

ı	*Source:	https://www.aps.com/en/Residential/Service-Plans/Compare-Service-Plans
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